NFOR	MATION REPO		CIA-RDP80T00246	
,	CENTRAL	INTELLIGENCE AGE		
This material contains information affecting the National Defense of the United States v. 18. U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner t.  S-E-C-R-E-T				
· .	740	FOREIGN DISSEM		
OUNTRY	USSR	REPORT		
UBJECT	Soviet Oil Drilling Equip	ment DATE DIS	rr. 19 September	r 1962 50X1-HI
		NO. PAG	<b>ES</b> 1	
ATE OF		REFERENC	ES RD	50X1-HUM
ACE & ATE ACQ.				
THIS IS U	NEVALUATED INFORMATION.			
1.	A two-page report on Sovi	et oil drilling equip	oment	
v 2.	This report contains deta equipment: Uralmash 3B, unit.	iled information on t Uralmash 9A, and the	the following by75 drilling	
	The state of the s		•	•
		·		
				50X1-H
			•	•
				×
			•	
	no	S-E-C-R-E-T FOREIGN DISSEM		
	ио			
	ио			GROUP 1 Excluded from outomatic demograding and
тате Х			R X DIA	
		FOREIGN DISSEM	R X DIA	Excluded from outomotic downgrading and declassification
Note: Washington	ARMY X NAVY X AIR  n distribution indicated by "X"; Field distribution	FOREIGN DISSEM    X   NSA   X   OC	ANI	Excluded from outomotic downgrading and declassification
Note: Washington	ARMY X NAVY X AIR  n distribution indicated by "X"; Field distribution	FOREIGN DISSEM    X   NSA   X   OC		Excluded from outomotic downgrading and declassification
Note: Washingto	ARMY X NAVY X AIR  n distribution indicated by "X"; Field distribution	FOREIGN DISSEM    X   NSA   X   OC	ANI	Excluded from outomatic downgrading and declassification
Note: Washington	ARMY X NAVY X AIR  n distribution indicated by "X"; Field distribution	FOREIGN DISSEM    X   NSA   X   OC	ANI	Excluded from outomatic downgrading and declassification

♥	SECRET SECRETARY DISSEM
•	NO FOREIGN DISSEM
	<u>U. S. S. R.</u>
	Economic/Scientific
	U.S.S.R. Oil-drilling Equipment
	In July 1961, the two most widely-used Oil-drilling Equipments in
tì	ne U.S.S.R. were the URALMASH 3B and the URALMASH 9A. The following
br	rief details were noted:
2.	URALWASH 3B:
	Capacity 5000 mtrs. (16,500 ft.) Total Power Input 2000 EMP. @ 1600 r.p.m.
	1700 EHP. @ 1200 r.p.m. Drawworks Power Input 1200 EHP. @ 1600 r.p.m. Slush Pump Power Input 470 EHP. @ 310 r.p.m.
	Drive Arrangement, 5-engine Set - Three engines for draw-works which
	also served to power No. 1 Drilling Pump, two engines for independent
	drilling pump.
	Drive Arrangement, 9-engine Set - Three engines for Draw-works and
	No. 1 pump.
	3 x 2 ergine sets for each of three independent pumps.
	This particular equipment, although in current use, cannot be described
	as modern Its capacity is roughly that of the 50X1-HU
	National Type 80B which has a considerable lower power requirement. It
	had the appearance of being based possibly on German designs.
	When the speed of 1600 r.p.m. was queried, the enquirer was told that
maj	ny of the rigs had been adapted to a reduced speed of 1500 r.p.m.
3.	URALIMASH 9A:
	Capacity 3000 metrs.  Max B.H.P. Input 1200 (at Dray-vorks)
	Pump Input B.H.P. 450 B.H.P.
	Engines 2 (Torque convertors)
	B.H.P. 800 Speed 1600 r.p.m.
	Pumps 2
	Diesel Generators 2 Rating 100 kH, @ 50 cycles A.C.
	This is a considerably more modern type of equipment than the 3A and 50X1-HU

SECRET NO FOREIGN DISS

-2-

50X1-HUM

- 4. The chief difficulty experienced by the Russians when they export their drilling equipment is that their engines need major overhauls much more frequently than those made by a first-class Western manufacturer (every 5 thousand hours compared with 15 to 20 thousand hours for example).

  Moreover, they have no service organisation outside Russia and the adequate provision of spares is a serious problem for them.
- 5. Later, in 1962, the Soviet drilling unit BY-75 bp which is suitable for turbo- and conventional drilling to 2400 metres, has come into general use. The following figures are the Russian specification:

No. of tool-hoist speeds

Total performance of Power drive

Power transmitted to draw-works

Power transmitted to rotary

Maximum table speed

Height of mast

No. of slush pumps

Total weight of drilling unit

40.8 metric tons.

It is a portable rig and the hook-up permits of four reversible drum speeds and two reversible table speeds. The chain compounding is arranged for both engines to drive the draw-works or the pump or alternatively, for one engine to drive the draw-works and rotary and the other engine to drive the pump

SECRET CONTROL

O. S. CEFICIALS ONLY

**SECRET** 

9853